

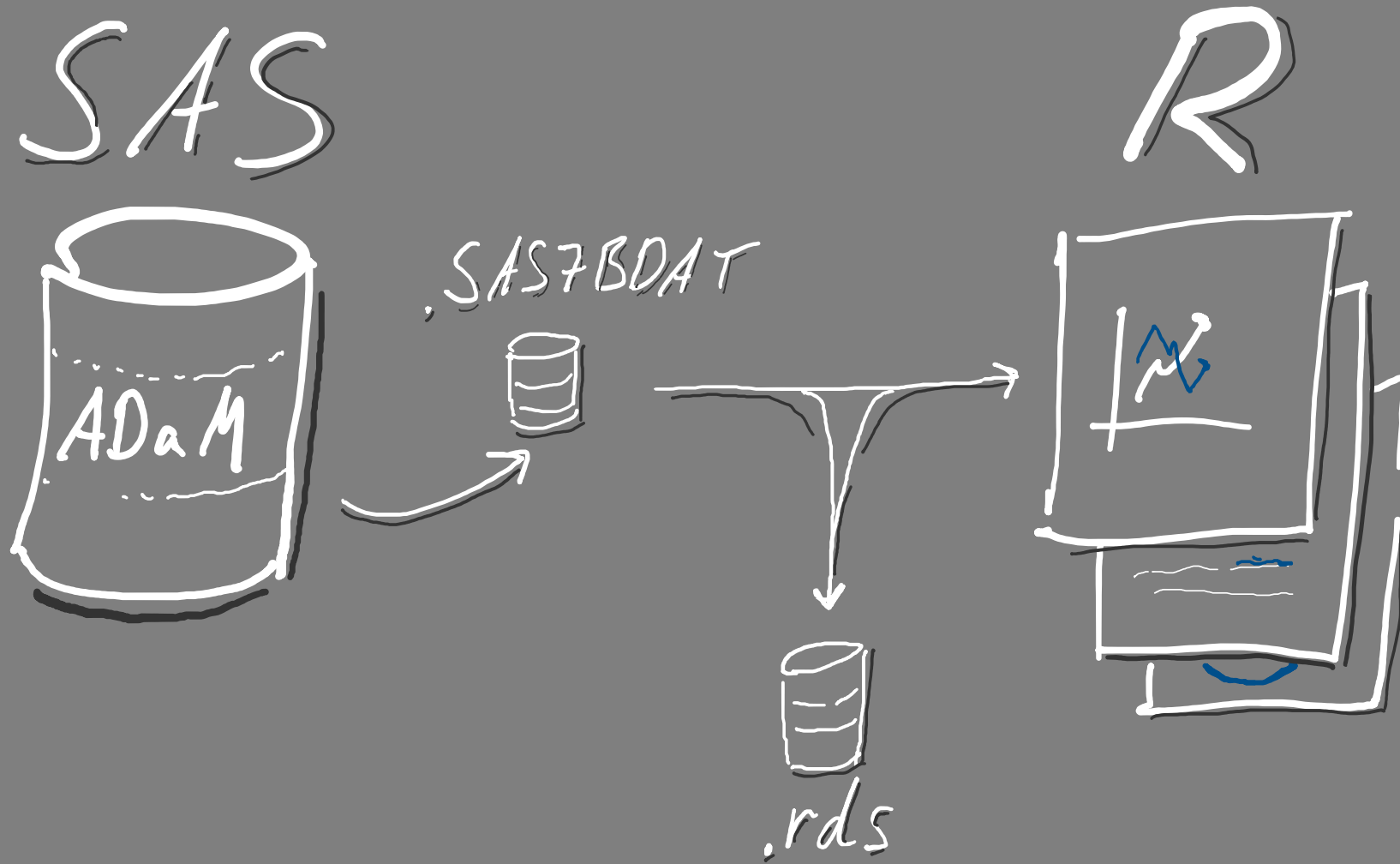
Building a trial pipeline with Rmarkdown and Rstudio Connect

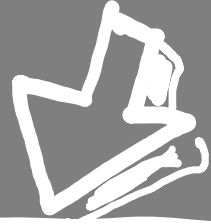
Ari Siggaard Knoph

Statistical Programming Specialist

Views and opinions expressed are those of the
speaker and not necessarily Novo Nordisk

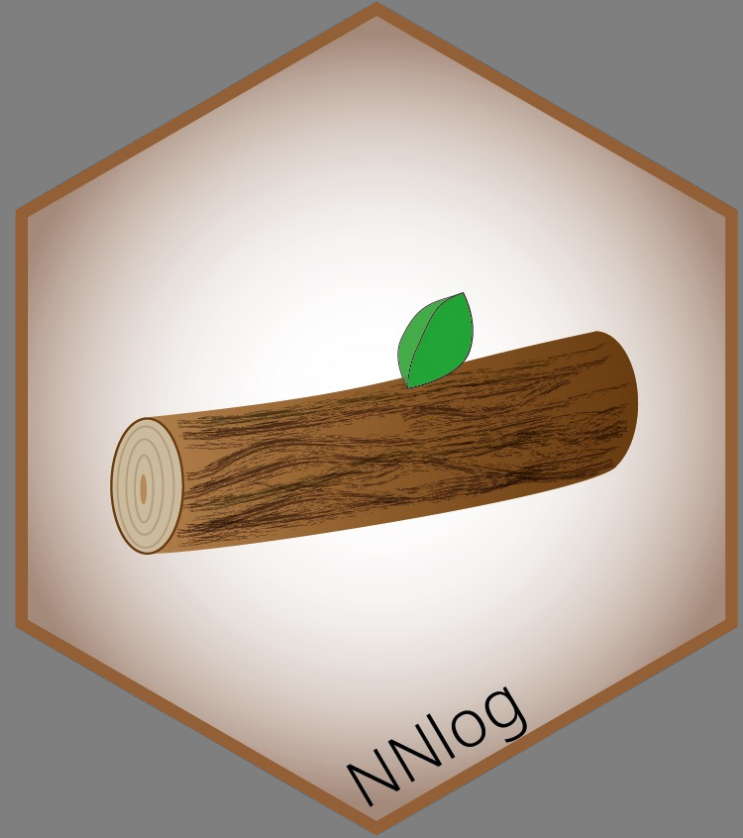
wait
wait
wait

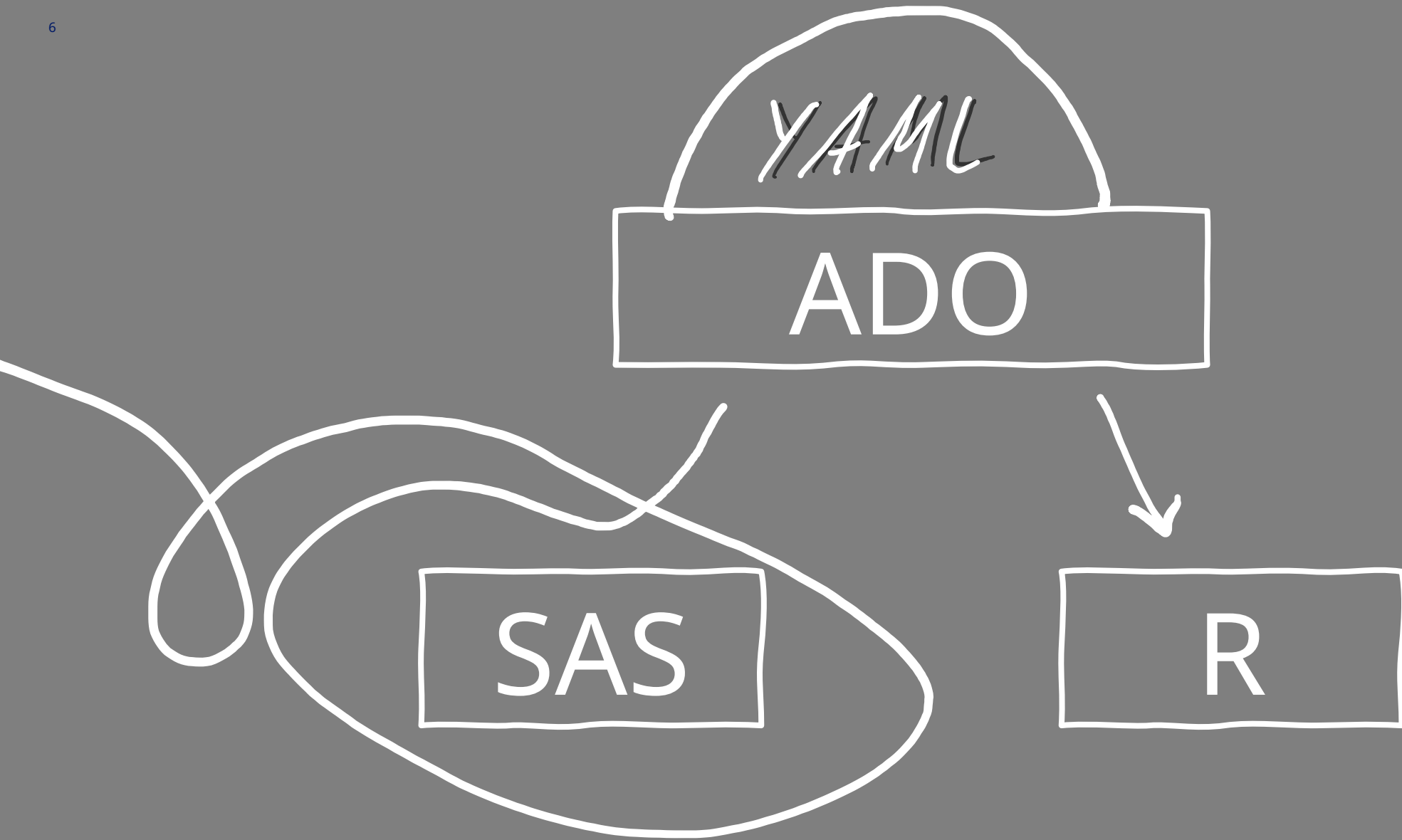


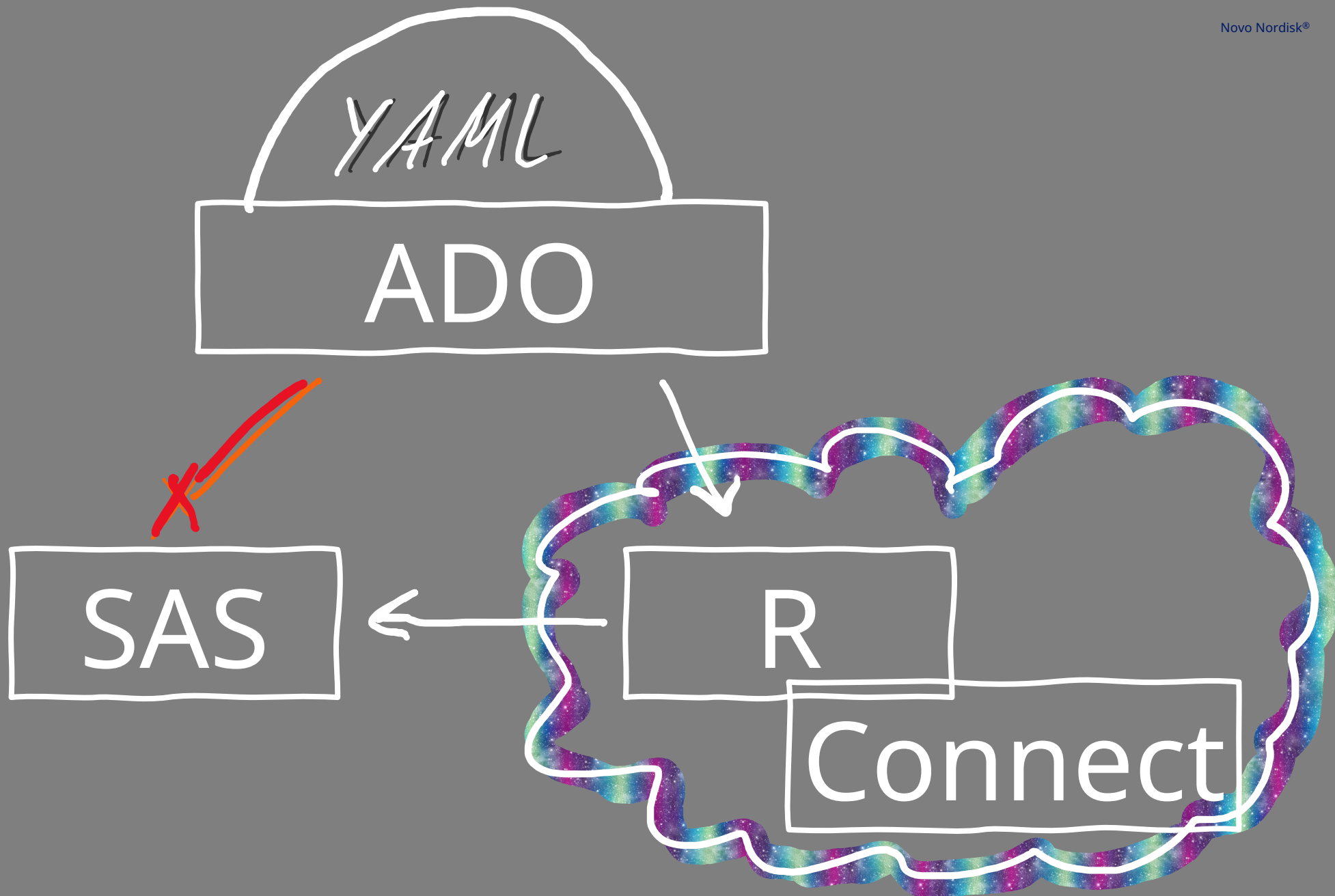


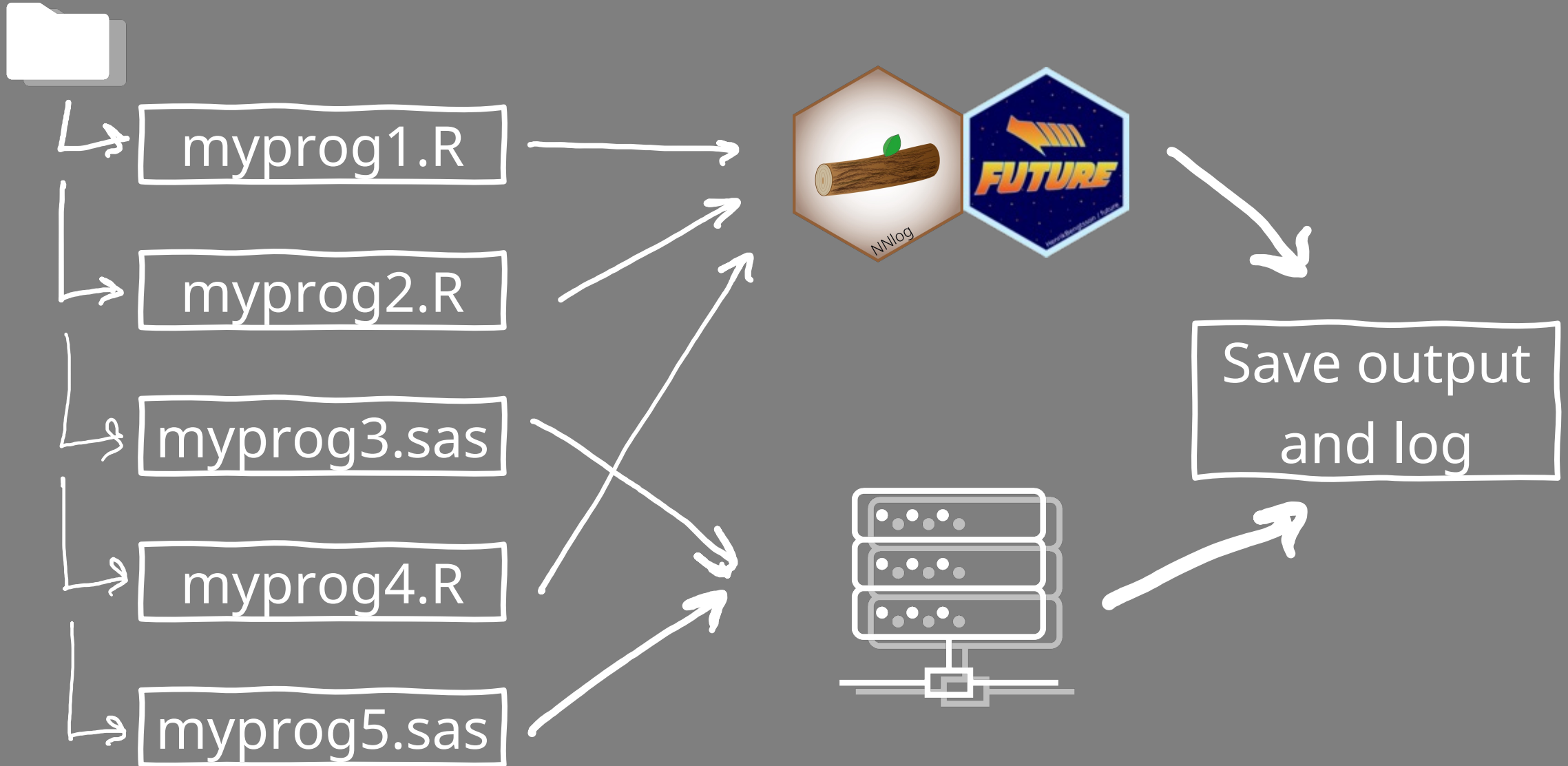
Batch Execution of Multilingual Trial

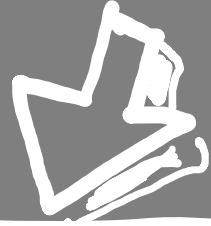
sasall











Creating and Publishing an Rmarkdown Document

Header

Markdown

Code
chunks

```
1 ---
2 title: "Build trial"
3 author: "AIKP"
4 date: "`r Sys.time()`"
5 output: html_document
6 ---
7
8
9 ```{r}
10 Sys.setenv(TZ = "Europe/Amsterdam")
11 library(NNBiostat)
12 library(NNremote)
13 library(NNutility)
14 library(rlist)
15 library(dtplyr)
16 ```
```

```
42 ### Run SDTM stacking
43
44 ```{r}
45 runProg("0001", "sdtmprog")
46
47 ---
48
49 ### Run metadata programs
50
51 ```{r}
52 runProg("0001", "metadataprogram", verbose = TRUE)
53
54 ---
55 |
56 ### Run ADaM programs
57
58 ```{r}
59 run_prog("0001", "adamprog")
60
61 ---
62
```

Plots

Publish 

The combination of options you have selected does not match any content available. Please try clearing or changing your selected options. [Clear all filters](#)

Options

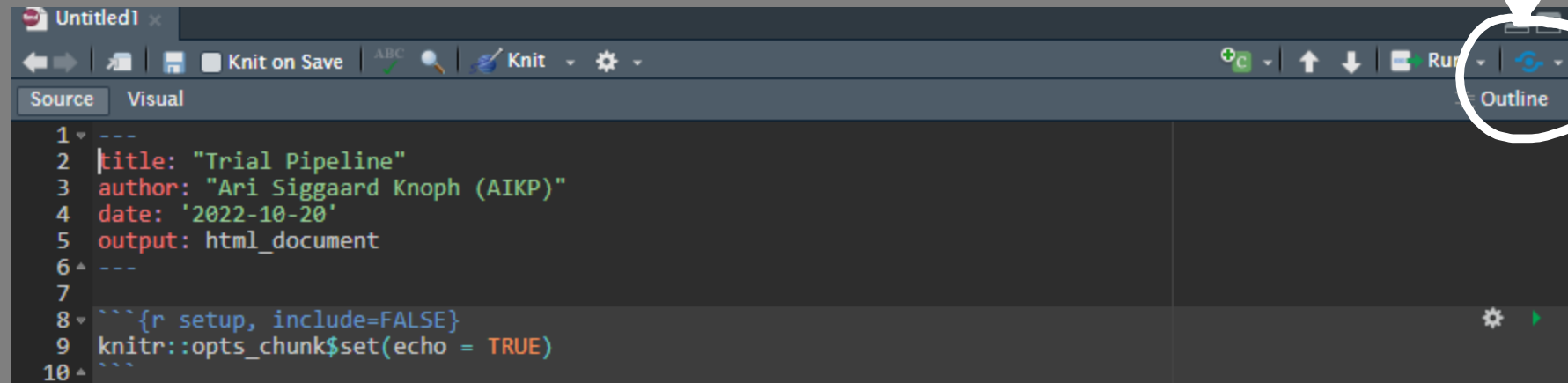
 Search for content...

Owner

☒ All☐ You

Content Type

☐ All☐ Applications☐ Documents & Reports☒ Plots☐ Pins☐ APIs☐ TensorFlow Model APIs



The screenshot shows the RStudio interface with a document titled 'Untitled1'. The top toolbar includes buttons for 'Knit on Save', 'ABC', 'Knit', and a 'Run' button. The 'Run' button is circled in white, and a white arrow points to it. Below the toolbar, the 'Source' tab is active, showing a YAML header and R code. The 'Visual' tab is also visible. The 'Outline' tab is visible on the right side of the editor.

```
1 ---  
2 title: "Trial Pipeline"  
3 author: "Ari Siggaard Knoph (AIKP)"  
4 date: '2022-10-20'  
5 output: html_document  
6 ---  
7  
8 ```{r setup, include=FALSE}  
9 knitr::opts_chunk$set(echo = TRUE)  
10 ```
```

Plots

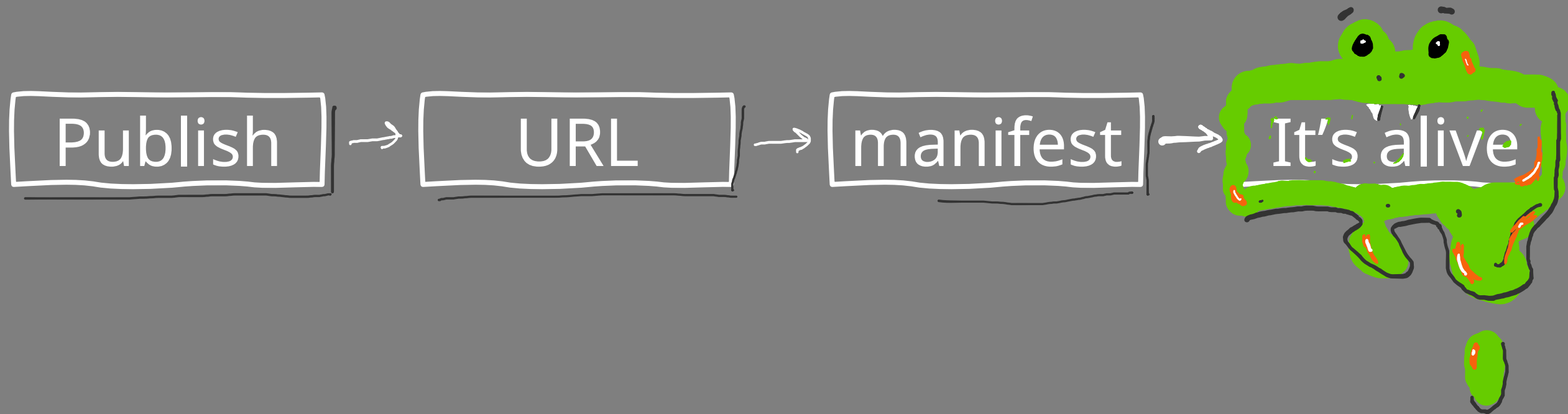
The combination of options you have selected does not match any content available. Please try clearing or changing your selected options. [Clear all filters](#)

Publish ▾

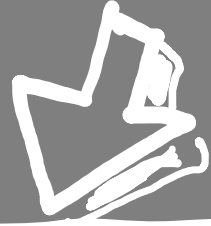
-  Import from Git 
-  R Markdown Document
-  Parameterized R Markdown
-  Shiny App
-  Plumber API
-  Jupyter Notebook
-  Jump Start Examples
-  How to Publish (User Guide)

Manifest

```
rsconnect::writeManifest()
```



Challenge No 3



Access and
Scheduling

Build trial

AIKP

2022-10-19 22:31:28

```
Sys.setenv(TZ = "Europe/Amsterdam")  
library(NNBiostat)
```

```
## — Attaching packages ————— NNBiostat 1.0.62 —
```

```
## ✓ labelled 2.8.0      ✓ ggplot2 3.3.5  
## ✓ emmeans 1.6.3      ✓ patchwork 1.1.1  
## ✓ lme4 1.1.27.1      ✓ tibble 3.1.4  
## ✓ MASS 7.3.54        ✓ tidyr 1.1.3  
## ✓ Matrix 1.3.4       ✓ readr 2.0.1  
## ✓ survival 3.2.13    ✓ purrr 0.3.4  
## ✓ mice 3.13.0        ✓ dplyr 1.0.7  
## ✓ glue 1.4.2         ✓ stringr 1.4.0  
## ✓ data.table 1.14.0  ✓ forcats 0.5.1
```

```
## — Attaching packages ————— NNR 1.9.11 —
```

```
## ✓ NNlog 0.0.5      ✓ NNexport 0.0.3  
## ✓ NNremote 0.0.8   ✓ NNtfl 0.0.6  
## ✓ NNaccess 0.0.26  ✓ NNsdm 0.0.1  
## ✓ NNcalc 1.0.1     ✓ NNadam 0.0.2  
## ✓ NNplot 0.0.6     ✓ NNrender 0.1.4  
## ✓ NNtable 0.0.7    ✓ NNutility 0.0.5
```

```
##
```

```
## — Conflicts ————— NNBiostat_conflicts() —  
## ✗ patchwork::area() masks MASS::area()  
## ✗ dplyr::between() masks data.table::between()  
## ✗ methods::body<-() masks base::body<-()  
## ✗ mice::cbind() masks base::cbind()  
## ✗ dplyr::collapse() masks glue::collapse()  
## ✗ tidyr::expand() masks Matrix::expand()  
## ✗ dplyr::filter() masks mice::filter(), stats::filter()  
## ✗ dplyr::first() masks data.table::first()  
## ✗ methods::kronecker() masks base::kronecker()
```

Sharing settings

- ☐ Anyone - no login required
- ☒ All users - login required
- ☐ Specific users or groups

Who can view or change this Document

-  aikp aikp
-  ktqn ktqn  
-  sfl sfl  

Who runs this content on the server

An alternate user aikp

Content URL



 aikp



Sharing settings

☐ Anyone - no login required

☒ All users - login required

☐ Specific users or groups



Who can view or change this Document



 aikp aikp

 ktqn ktqn  

 sffl sffl  





☒ Schedule output for default

Timezone

(GMT+02:00) Europe - Copenhagen 

Start date & time

Mar 27, 2022 10 : 30

am pm

[Reset to Local Time](#)

Schedule type

Daily 

☒ Run every day.

☐ Run every weekday (Monday to Friday).

☒ Publish output after it is generated

☐ Send email after update